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| APPLICATION NO. | F | TILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------|--------|-------------|----------------------|-------------------------|------------------|
| 09/682,519 | | 09/13/2001 | Yu Wang | 040489-0177 | 2614 |
| 22428 | 7590 | 06/19/2006 | | EXAMINER | |
| FOLEY AT | ND LAR | DNER LLP | ROJAS, BERNARD | | |
| SUITE 500 3000 K STR | EET NW | | ART UNIT | PAPER NUMBER | |
| WASHING | | | 2832 | | |
| | | | | DATE MAIL ED: 06/19/200 | 6 |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | Applic | cation No. | Applicant(s) | | | | | |
|---|--|---|--|--|---------------------|--|--|--|--|
| | | | 2,519 | WANG, YU | | | | | |
| | Office Action Summary | Exami | ner | Art Unit | | | | | |
| | | | rd Rojas | 2832 | | | | | |
| ۔۔ Period for | The MAILING DATE of this commun Reply | ication appears on | the cover sheet w | rith the correspondence a | ddress | | | | |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). | | | | | | | | | |
| Status | | | | | | | | | |
| 2a) | esponsive to communication(s) file his action is FINAL. ince this application is in condition losed in accordance with the praction | 2b)⊠ This action i for allowance exc | is non-final. ept for formal mat | · · · · · · | ne merits is | | | | |
| Dispositio | n of Claims | | | | | | | | |
| 5) ☐ C 6) ☑ C 7) ☐ C 8) ☐ C Applicatio 9) ☐ TI 10) ☐ TI | claim(s) 1-22,39 and 40 is/are penda a) Of the above claim(s) is/acceptance claim(s) is/are allowed. claim(s) 1-22,39 and 40 is/are rejected to. claim(s) is/are objected to. claim(s) are subject to restrict to restrict to restrict to the drawing(s) filed on is/are pplicant may not request that any objected to oath or declaration is objected to the oath of the oath oath of the oath of the oath of the oath of the oath oath oath oath oath oath oath oath | re withdrawn from ted. ction and/or election e Examiner. a) accepted or | consideration. on requirement. r b) objected to s) be held in abeyar | nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 C | ' ' | | | | |
| Priority un | der 35 U.S.C. § 119 | | | | | | | | |
| 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. | | | | | | | | | |
| 2) Notice (3) Informa | of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (Fition Disclosure Statement(s) (PTO-1449 or lo(s)/Mail Date | | Paper No(| Summary (PTO-413) s)/Mail Date Informal Patent Application (PT | ⁻ O-152) | | | | |

DETAILED ACTION

Response to Arguments

Applicant's arguments with respect to claims 1-22, 39 and 40 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 7-11, 14, 19-21 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whittaker et al. [US 6,739,568] in view of van Oort [US 5,923,235].

Claim 1, Whittaker et al. discloses an open style MRI [16] located a on a vibration isolation system [10] mounted in the structure of a building [14, col. 2 lines 47-61].

Whittaker et al. fails to teach that the MRI is a clam-shell MRI magnet system. van Oort discloses an open style, clam-shell MRI magnet system (figure 1).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the MRI as taught by van Oort since Whittaker et al. discloses that the vibration isolation system is used to isolate a structure from the vibrations of an MRI [col. 2 lines 47-61].

Claims 7 and 19, Whittaker et al. discloses an open MRI system, wherein the

vibration isolation system is secured to a floor and the MRI magnet system is attached

over the vibration isolation system [figure 1].

Claims 8 and 20, Whittaker et al. discloses an open MRI system, wherein the

vibration isolation system is configured within a footprint of the MRI magnet system.

Claim 9, Whittaker et al. discloses the open MRI system of claim 1, further

comprising a structural holder positioned between the vibration isolation system and the

MRI magnet system [figures 1 and 2].

Claims 10 and 21, it would have been obvious to one of ordinary skill in the art at

the time the invention was made to use the vibration isolation system as shown by

Whittaker et al. for a preexisting MRI magnet system by merely installing the isolation

system into the floor and place the MRI onto the system.

Claim 11, Whittaker et al. discloses the open MRI system of claim 10, wherein

the vibration isolation system is mounted on posts such that MRI magnet system

supports do not contact a floor of a site where the MRI magnet system is located [figure

1].

Claim 14, van Oort discloses an open magnet assembly with a floor mount

comprising:

- a first assembly mounted about a first longitudinally-extending and generally-

vertically-aligned axis including'.

- at least one superconducting main coil (26) positioned around the axis; and

- a vacuum enclosure (24) enclosing the at least one superconductive main coil;

- a second assembly mounted about a second longitudinally-extending and generally-vertically-aligned axis coaxially aligned with the first axis and spaced longitudinally apart from and disposed below the first assembly, the second assembly including:
 - at least one superconducting main coil (30) positioned around the axis; and
- a vacuum enclosure (28) enclosing the at least one superconductive main coil; and
- at least one support beam (32) external to the first and second vacuum enclosures having a first end attached to the first assembly and a second end attached to the second assembly.

Claim 39, van Oort discloses the open MRI system of claim 1, wherein the open clam-shell MRI magnet system comprises a vertically aligned MRI magnet system [figure 1].

Claim 40, van Oort discloses the open MRI system of claim 39, wherein the vertically- aligned, open clam-shell MRI magnet system comprises: a first magnet assembly containing a first superconductive coil [24]; a second magnet assembly containing a second superconductive coil [30]; and only two support members [32] supporting the second magnet assembly over the first magnet assembly, wherein the two support members are not diametrically aligned to a diameter line of the first and the second magnet assemblies [figure 1].

Claims 2-4, 12-13, I 5-17 and 22 are rejected under 35 U.S.C. 103Ia) as being unpatentable over Whittaker et al. [US 6,739,568] in view of van Oort [US 5,923,235],

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as applied to claims 1, 7-11, 14, 19-21 and 39-40 above, and further in view of Ohsaki [US 6,202,492].

Whittaker et al. in view of van Oort discloses the instant claimed invention except for the isolators being adjustable and actively pneumatically controlled.

Ohsaki discloses a surface [6] being supported by adjustable actively controlled pneumatic isolators [4a-d, column 5, lines 1-12].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to the isolator design of Ohsaki for the isolators of Whittaker et al. in view of van Oort for the purpose of accommodating variations in the operating environment.

The specific frequencies, Q-factors, bandwidth, etc. of the control would have been obvious design considerations based on the specific application and environment of use.

Claims 5-6 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Whittaker et al. [US 6,739,568] in view of van Oort [US 5,923,235], as applied to claims 1 and 14 above, and further in view of Braun [US 4,781,363].

Whittaker et al. in view of van Oort discloses the instant claimed invention except for the use of balance weights on the isolators.

Braun discloses the use of balance weights [9] mounted on an isolator.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to use balance weights on the isolators of Whittaker et al. in view of van Oort, for the purpose of accommodating unexpected balance shifts.

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Conclusion

Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Bernard Rojas whose telephone number is (571) 272-

1998. The examiner can normally be reached on M-F 8-4:00), every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Elvin G. Enad can be reached on (571) 272-1990. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Band I Cya

ELVIN ENAD

SUPERVISORY PATENT EXAMINER

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